

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/002988

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G02F1/01 G02F1/025

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/021878 A1 (ALLAN DOUGLAS C ET AL) 21 February 2002 (2002-02-21) the whole document	1, 13, 20
A	WO 03/062882 A (UNIVERSITY OF DELAWARE; PRATHER, DENNIS, W; SHARKAWY, AHMED; SHI, SHOU) 31 July 2003 (2003-07-31) the whole document	1, 13, 20
A	US 2003/185532 A1 (HOSOMI KAZUHIKO ET AL) 2 October 2003 (2003-10-02) the whole document	1, 13, 20
A	WO 03/098331 A (PHOTEON TECHNOLOGIES GMBH; METZLER, JOHANN-PETER) 27 November 2003 (2003-11-27) the whole document	1, 13, 20
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

22 April 2005

Date of mailing of the international search report

03/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Ammerlahn, D

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/002988

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SCHULLER CH ET AL: "Tunable photonic crystals fabricated in III-V semiconductor slab waveguides using infiltrated liquid crystals"</p> <p>APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 82, no. 17, 28 April 2003 (2003-04-28), pages 2767-2769, XP012033857</p> <p>ISSN: 0003-6951</p> <p>the whole document</p>	1,13,20
A	<p>ARENTOFT J ET AL: "Realization of robust photonic crystal waveguides designed to reduce out-of-plane scattering"</p> <p>OPTICAL COMMUNICATION, 2001. ECOC '01. 27TH EUROPEAN CONFERENCE ON SEPT. 30 - OCT. 4, 2001, PISCATAWAY, NJ, USA, IEEE, vol. 4, 30 September 2001 (2001-09-30), pages 592-593, XP010582697</p> <p>ISBN: 0-7803-6705-7</p> <p>the whole document</p>	1,13,20